

Winter Weather Program

October 16th, 2014

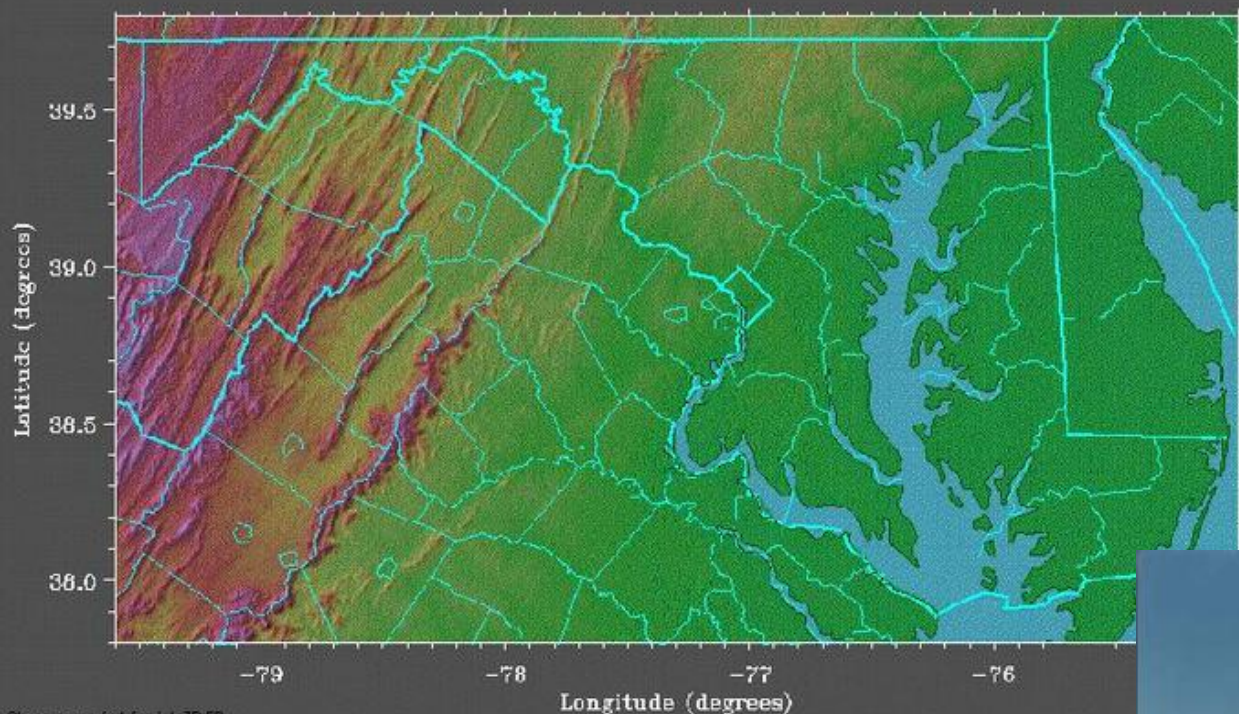
Brian LaSorsa
Winter Weather Program Leader



*National Weather Service
Washington DC/Baltimore Forecast Office
Sterling, Virginia*



Elevation plays a huge part in our winter weather forecasting/products, ranging from near sea level along the shores of the Bay and Tidal Rivers to over 3500 feet in the Allegany Highlands

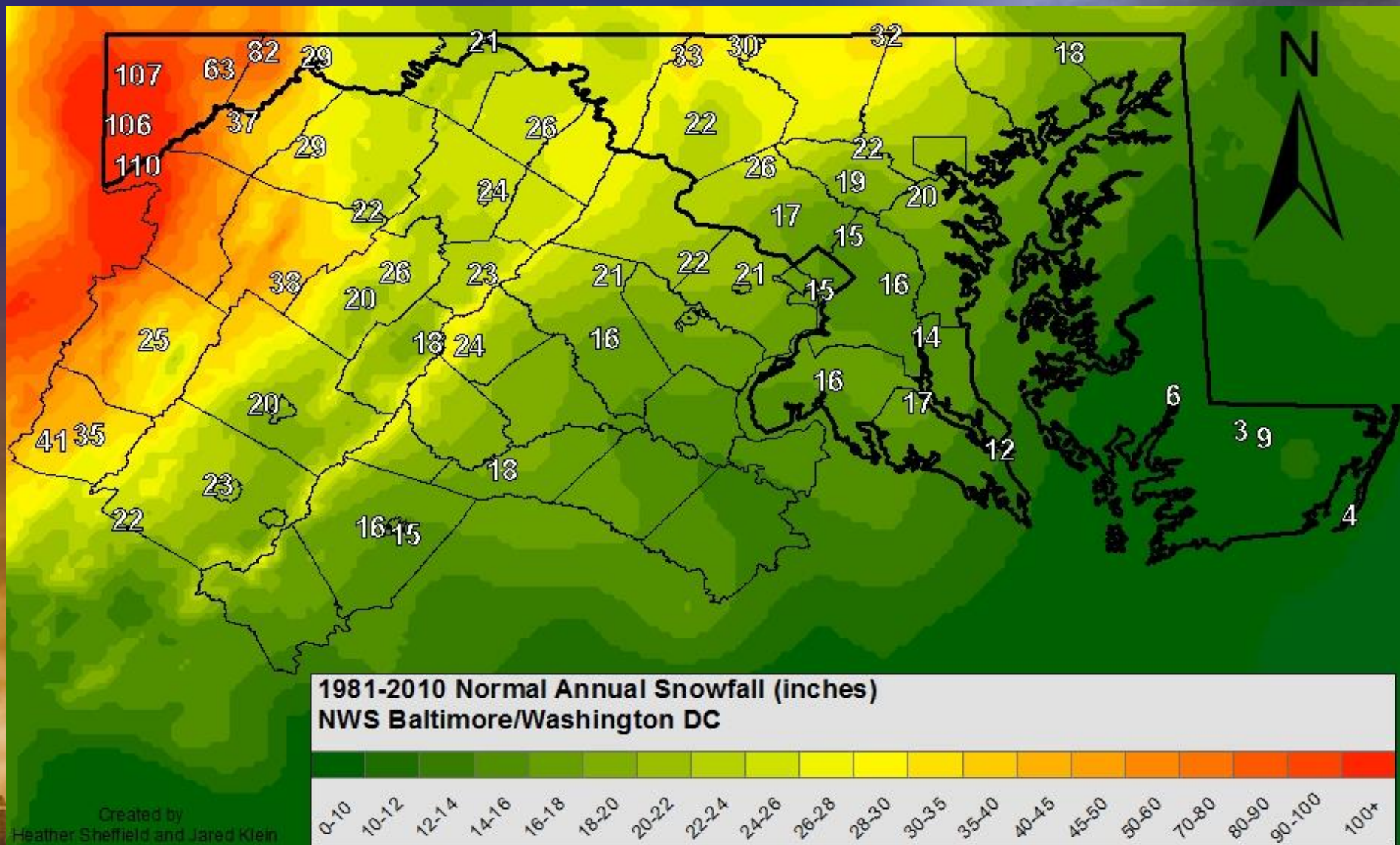


Shoreline converted from lat 38.40

V.2.2 COPYRIGHT © 1995 by RAY STERNER, JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY



NWS Sterling Forecast Area Average Annual Snowfall





Some key specific criteria



Winter Storm Outlook

Issued 3-7 days in advance
for anticipated snow/ice

Winter Storm Watch

Potential for hazardous
winter weather within the
next 48 hours.

Winter Storm Warning

5" or more of snow, or
a combination of weather
hazards in a 12 hour
period

Winter Weather Advisory

2" or more of snow in 12 hours,
or a combination of precipitation
types is expected to cause
significant inconvenience

Freezing Rain Advisory

Any amount of icing

Ice Storm Warning

1/4" or more

NWS Sterling forecasters use AWIPS
text/graphic workstations to prepare
forecasts/watches/warnings



The Hazardous Weather Outlook highlights potentially dangerous weather up to a week in advance



Level of
Confidence
Needed –
30%

HAZARDOUS WEATHER OUTLOOK
NATIONAL WEATHER SERVICE BALTIMORE MD/WASHINGTON DC
413 PM EST SUN FEB 9 2014

ANZ530>543-DCZ001-MDZ006-007-011-013-014-016>018-VAZ052>057-
101000-
CHESAPEAKE BAY NORTH OF POOLES ISLAND MD-
CHESAPEAKE BAY FROM POOLES ISLAND TO SANDY POINT MD-
CHESAPEAKE BAY FROM SANDY POINT TO NORTH BEACH MD-
CHESAPEAKE BAY FROM NORTH BEACH TO DRUM POINT MD-
CHESAPEAKE BAY FROM DRUM POINT MD TO SMITH POINT VA-
TIDAL POTOMAC FROM KEY BRIDGE TO INDIAN HEAD MD-
TIDAL POTOMAC FROM INDIAN HEAD TO COBB ISLAND MD-
TIDAL POTOMAC FROM COBB ISLAND MD TO SMITH POINT VA-
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR-
CHESTER RIVER TO QUEENSTOWN MD-EASTERN BAY-
CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER-
PATUXENT RIVER TO BROOMES ISLAND MD-
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH
ISLAND-DISTRICT OF COLUMBIA-NORTHERN BALTIMORE-HARFORD-
SOUTHERN BALTIMORE-PRINCE GEORGES-ANNE ARUNDEL-CHARLES-ST. MARYS-
CALVERT-PRINCE WILLIAM/MANASSAS/MANASSAS PARK-FAIRFAX-
ARLINGTON/FALLS CHURCH/ALEXANDRIA-STAFFORD-SPOTSYLVANIA-
KING GEORGE-
413 PM EST SUN FEB 9 2014

THIS HAZARDOUS WEATHER OUTLOOK IS FOR THE MARYLAND PORTION OF THE
CHESAPEAKE BAY...TIDAL POTOMAC RIVER...AND ADJACENT COUNTIES IN
CENTRAL MARYLAND AND NORTHERN VIRGINIA AS WELL AS THE DISTRICT OF
COLUMBIA.

.DAY ONE...THIS AFTERNOON AND TONIGHT

LIGHT SNOWFALL ACCUMULATIONS ARE LIKELY DURING THE LATE AFTERNOON
AND EARLY EVENING...PARTICULARLY ACROSS NORTH CENTRAL MARYLAND.

A SMALL CRAFT ADVISORY IS IN EFFECT BEGINNING LATE TONIGHT ACROSS
THE MARYLAND CHESAPEAKE BAY AND LOWER TIDAL POTOMAC RIVER.

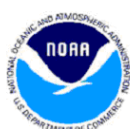
.DAYS TWO THROUGH SEVEN...MONDAY THROUGH SATURDAY

THE SMALL CRAFT ADVISORY CONTINUES ON MONDAY.

A COASTAL LOW MAY BRING WINTRY PRECIPITATION TO THE AREA
WEDNESDAY INTO THURSDAY. THERE IS STILL CONSIDERABLE UNCERTAINTY
REGARDING THE AMOUNT AND TYPE OF PRECIPITATION...WHICH WILL BE
DETERMINED BY THE TRACK OF THE LOW.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION IS NOT EXPECTED AT THIS TIME. SNOWFALL REPORTS
ARE APPRECIATED.



We issue a winter storm watch... generally 1 to 2 days before the storm

The winter storm watch means that there is the potential (50% confidence) for hazardous winter weather within the next 48 hours.

DCZ001-MDZ006-007-009>011-013-014-016>018-VAZ052>057-110400-
/O.NEW.KLWX.WS.A.0004.140213T0000Z-140214T0300Z/
DISTRICT OF COLUMBIA-NORTHERN BALTIMORE-HARFORD-MONTGOMERY-HOWARD-
SOUTHERN BALTIMORE-PRINCE GEORGES-ANNE ARUNDEL-CHARLES-ST. MARYS-
CALVERT-PRINCE WILLIAM/MANASSAS/MANASSAS PARK-FAIRFAX-
ARLINGTON/FALLS CHURCH/ALEXANDRIA-STAFFORD-SPOTSYLVANIA-
KING GEORGE-
INCLUDING THE CITIES OF...WASHINGTON...GAITHERSBURG...COLUMBIA...
BALTIMORE...ANNAPOLIS...WALDORF...ST MARYS CITY...MANASSAS...
MANASSAS PARK...FAIRFAX...ALEXANDRIA...FALLS CHURCH...
FREDERICKSBURG
254 PM EST MON FEB 10 2014

...WINTER STORM **WATCH** IN EFFECT FROM WEDNESDAY EVENING THROUGH
THURSDAY EVENING...

THE NATIONAL WEATHER SERVICE IN BALTIMORE MD/WASHINGTON HAS
ISSUED A WINTER STORM **WATCH**...WHICH IS IN EFFECT FROM WEDNESDAY
EVENING THROUGH THURSDAY EVENING.

- * PRECIPITATION TYPE...SNOW AND SLEET
- * ACCUMULATIONS...THE POTENTIAL FOR 5 OR MORE INCHES OF SNOW AND SLEET.
- * TIMING...SNOW IS EXPECTED TO MOVE IN FROM THE SOUTH WEDNESDAY EVENING. SNOW MAY MIX WITH SLEET AND RAIN LATE WEDNESDAY NIGHT AND THURSDAY. THE SNOW COULD BE HEAVY AT TIMES WEDNESDAY NIGHT AND THURSDAY.
- * TEMPERATURES...IN THE MID TO UPPER 20S 20S WEDNESDAY NIGHT... SLOWLY RISING INTO THE LOWER AND MIDDLE 30S THURSDAY AFTERNOON.
- * WINDS...NORTH 15 TO 25 MPH WITH GUSTS UP TO 35 MPH.
- * IMPACTS...ROADS MAY BECOME SNOW AND SLEET COVERED AND SLIPPERY. TRAVEL MAY BE DANGEROUS WEDNESDAY NIGHT AND THURSDAY. HEAVY WET SNOW COULD LEAD TO SOME POWER OUTAGES.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WINTER STORM **WATCH** MEANS THERE IS A POTENTIAL FOR SIGNIFICANT SNOW AND SLEET ACCUMULATIONS THAT MAY IMPACT TRAVEL. CONTINUE TO MONITOR THE LATEST FORECASTS.



Winter Storm Warning – generally 12 to 24 hours before the storm



Level of
Confidence
Needed – 80%

DCZ001-MDZ013-014-016-VAZ054-057-121030-
/O.UPG.KLWX.WS.A.0004.140213T0000Z-140214T0300Z/
/O.NEW.KLWX.WS.W.0006.140213T0100Z-140213T2000Z/
DISTRICT OF COLUMBIA-PRINCE GEORGES-ANNE ARUNDEL-CHARLES-
ARLINGTON/FALLS CHURCH/ALEXANDRIA-KING GEORGE-
INCLUDING THE CITIES OF...WASHINGTON...ANNAPOLIS...WALDORF...
ALEXANDRIA...FALLS CHURCH
929 PM EST TUE FEB 11 2014

...WINTER STORM **WARNING** IN EFFECT FROM 8 PM WEDNESDAY TO 3 PM EST THURSDAY...

THE NATIONAL WEATHER SERVICE IN BALTIMORE MD/WASHINGTON HAS ISSUED A WINTER STORM **WARNING** FOR SNOW AND SLEET...WHICH IS IN EFFECT FROM 8 PM WEDNESDAY TO 3 PM EST THURSDAY. THE WINTER STORM WATCH IS NO LONGER IN EFFECT.

- * PRECIPITATION TYPE...HEAVY SNOW AND SLEET.
- * ACCUMULATIONS...4 TO 8 INCHES.
- * TIMING...SNOW WILL OVERSPREAD THE AREA FROM THE SOUTH BETWEEN 8 PM AND 10 PM WEDNESDAY EVENING. SNOW WILL BE HEAVY AT TIMES WEDNESDAY NIGHT INTO THURSDAY MORNING. SNOW IS EXPECTED MIX WITH SLEET AND RAIN LATE THURSDAY MORNING INTO THURSDAY AFTERNOON.
- * TEMPERATURES...IN THE MID 20S WEDNESDAY NIGHT...SLOWLY RISING INTO THE LOWER 30S THURSDAY AFTERNOON.
- * WINDS...NORTHEAST 5 TO 15 MPH WEDNESDAY EVENING...BECOMING NORTH AND INCREASING TO 10 TO 20 MPH WITH GUSTS TO 35 MPH LATE WEDNESDAY NIGHT AND THURSDAY.
- * IMPACTS...ROADS WILL BECOME SNOW AND SLEET COVERED AND SLIPPERY. TRAVEL WILL BE DANGEROUS WEDNESDAY NIGHT AND THURSDAY. HEAVY WET SNOW COUPLED WITH GUSTY WINDS COULD LEAD TO SOME POWER OUTAGES.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WINTER STORM **WARNING** FOR HEAVY SNOW MEANS SEVERE WINTER WEATHER CONDITIONS ARE EXPECTED OR OCCURRING. SIGNIFICANT AMOUNTS OF SNOW ARE FORECAST THAT WILL MAKE TRAVEL DANGEROUS. ONLY TRAVEL IN AN EMERGENCY. IF YOU MUST TRAVEL...KEEP AN EXTRA FLASHLIGHT...FOOD...AND WATER IN YOUR VEHICLE IN CASE OF AN EMERGENCY.



Winter Weather Advisory - when snow, alone or in combination with sleet and freezing rain, is expected to cause a significant inconvenience, but not serious enough to warrant a warning.



Level of
Confidence
Needed – 80%

URGENT - WINTER WEATHER MESSAGE
NATIONAL WEATHER SERVICE BALTIMORE MD/WASHINGTON DC
939 PM EST FRI FEB 5 2010

MDZ007-011-061045-
/O.EXA.KLWX.BZ.W.0001.100206T0300Z-100207T0300Z/
/O.EXT.KLWX.WS.W.0006.000000T0000Z-100206T0300Z/
HARFORD-SOUTHERN BALTIMORE-
INCLUDING THE CITY OF...BALTIMORE
939 PM EST FRI FEB 5 2010

...WINTER STORM WARNING NOW IN EFFECT UNTIL 10 PM EST THIS
EVENING...
...BLIZZARD WARNING IN EFFECT UNTIL 10 PM EST SATURDAY...

THE NATIONAL WEATHER SERVICE IN STERLING VIRGINIA HAS ISSUED A
BLIZZARD WARNING...WHICH IS IN EFFECT UNTIL 10 PM EST SATURDAY.
THE WINTER STORM WARNING IS NOW IN EFFECT UNTIL 10 PM EST THIS
EVENING.

- * PRECIPITATION TYPE...HEAVY SNOW.
- * ACCUMULATIONS...WIDESPREAD STORM TOTAL ACCUMULATIONS OF 20 TO 30 INCHES...WITH SOME LOCATIONS IN EXCESS OF 30 INCHES.
- * TIMING...SNOW WILL CONTINUE THROUGH SATURDAY EVENING. THE HEAVIEST SNOWFALL WILL OCCUR THROUGH SATURDAY MORNING WITH THE MOST HAZARDOUS CONDITIONS OCCURRING OVERNIGHT.
- * VISIBILITIES...WIDESPREAD VISIBILITIES AT OR BELOW ONE-QUARTER MILE ARE EXPECTED TONIGHT IN HEAVY SNOW.
- * TEMPERATURES...TEMPERATURES WILL BE IN THE MID TO UPPER 20S TONIGHT AND SATURDAY.
- * WINDS...NORTHEAST WINDS 15 TO 25 MPH WITH FREQUENT GUSTS OF 35 TO 40 MPH OVERNIGHT THROUGH SATURDAY...ESPECIALLY ALONG THE COAST.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

THIS EXTREMELY DANGEROUS STORM IS EXPECTED TO PRODUCE RECORD
SNOWFALL FOR THE BALTIMORE AND WASHINGTON DC METROPOLITAN AREAS.
TRAVEL CONDITIONS TONIGHT ACROSS THE REGION WILL BE EXTREMELY
HAZARDOUS AND LIFE-THREATENING. HELP YOUR LOCAL AND STATE
GOVERNMENT FIRST RESPONDERS AND TRANSPORTATION AGENCIES BY
STAYING OFF THE ROADS.

A BLIZZARD WARNING MEANS SEVERE WINTER WEATHER CONDITIONS ARE
EXPECTED OR OCCURRING. FALLING AND BLOWING SNOW WITH STRONG WINDS
AND POOR VISIBILITIES ARE LIKELY. THIS WILL LEAD TO WHITEOUT
CONDITIONS.

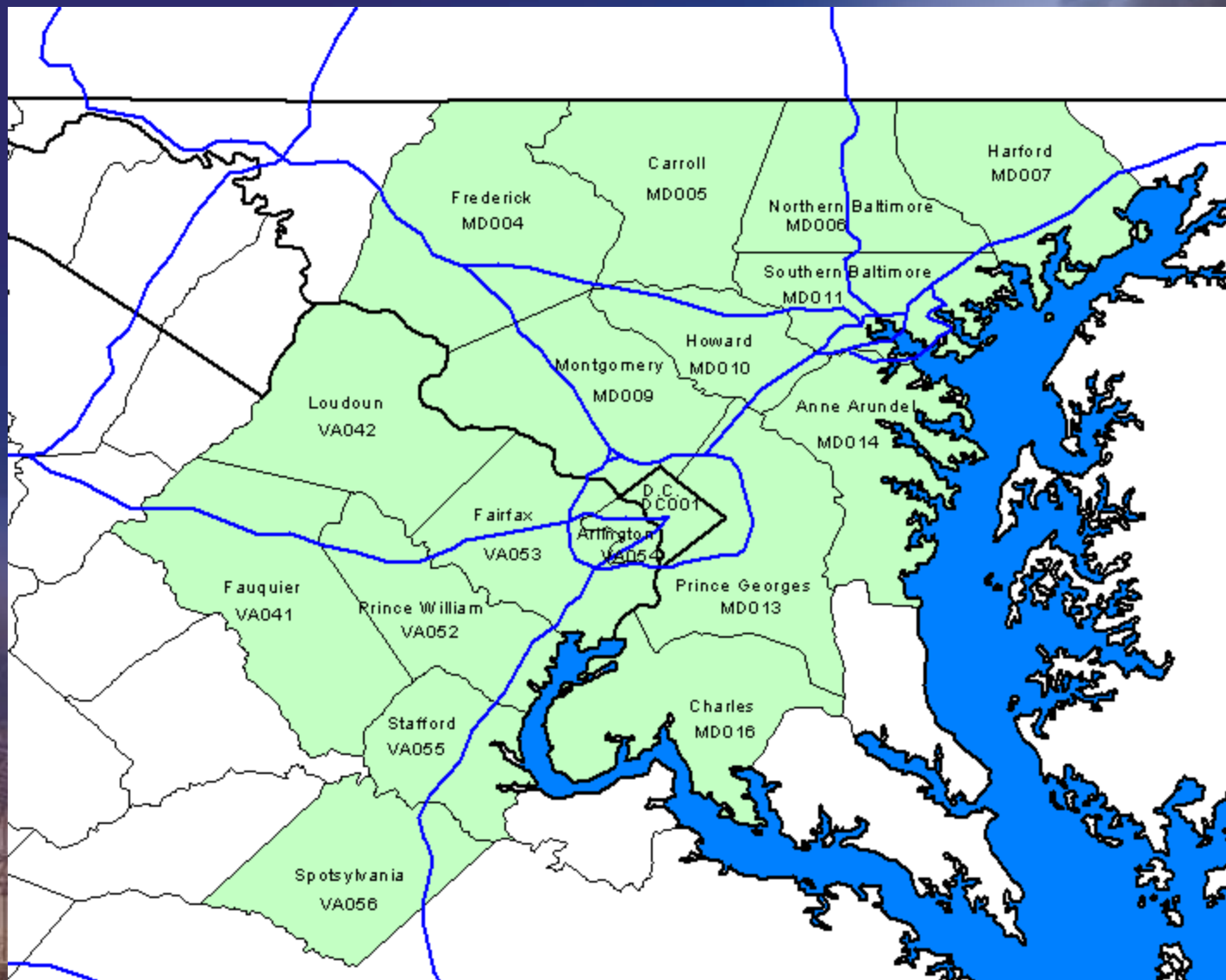




RUSH HOUR ADVISORIES

- **WINTER WEATHER ADVISORIES WILL BE ISSUED FOR ONE INCH OF SNOW AND SLEET FOR BALTIMORE AND WASHINGTON COMMUTING AREAS.**
- **MORNING RUSH...4AM TO 9AM AND EVENING RUSH...2PM TO 4 PM.**
- **WEEKDAYS THAT DO NOT FALL ON FEDERAL HOLIDAYS.**
- **INCLUDES ALL OR PORTIONS OF INTERSTATES 95...695...495...83...70...270...AND 66. (MAP ON NEXT SLIDE FOR DETAILS).**

DC-Baltimore metro area



For the purpose of defining the 1" advisory area



Winter Weather Website

www.weather.gov/washington/winter

Winter Weather Page

Winter weather updates will resume in 2014-2015 Winter season.

Expected Snow/Ice Accumulations

NWS does not expect measurable snow within the next 36 hours.

[What's this?](#)

Onset of Wintry Precipitation

Onset graphic is provided when there is an active warning or advisory.

[What's this?](#)

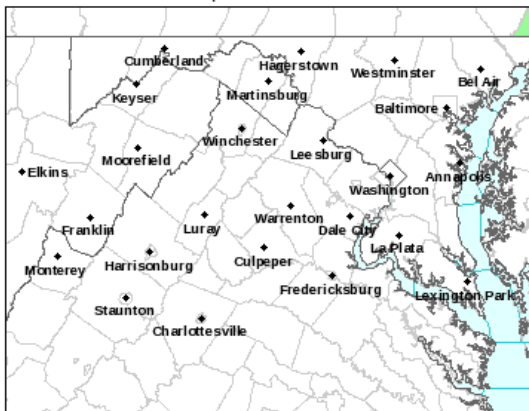
Reported Snow/Ice Totals

Snow Totals Map is generated as snow reports are received by NWS.

[What's this?](#)

Active Watches/Warnings/Statements

Click on the map below for the latest forecast.



Last map update: Fri, Aug. 15, 2014 at 12:24:21 am EDT

The next three sections are for snow only, and do not include any information on ice/freezing rain.

Snow Accumulation Potential

Experimental - [Leave feedback](#)

Probabilities forecast not in effect.

Minimum

Expect at least this much:
Probabilistic range of possibilities for storms are generated for planning ahead of the storm. These images are not currently available while snow is ongoing in our forecast area.

[What's this?](#)

MOST LIKELY

NWS does not expect measurable snow within the next 36 hours -OR- the entire duration of the storm covered by max/min is not forecast yet.

[What's this?](#)

[shapefiles kml](#)

Maximum

Potential for this much:
Probabilistic range of possibilities for storms are generated for planning ahead of the storm. These images are not currently available while snow is ongoing in our forecast area.

[What's this?](#)

Chance That Snow Accumulation Will Be Greater Than...

Experimental - [Leave feedback](#)

Probabilities forecast not in effect.

[What's this?](#)

Probabilistic range of possibilities for storms are generated for planning ahead of the storm. These images are not currently available while snow is ongoing in our forecast area.

Chance of Snow Accumulation

Experimental - [Leave feedback](#)

Probabilities forecast not in effect.

[What's this?](#)

County:

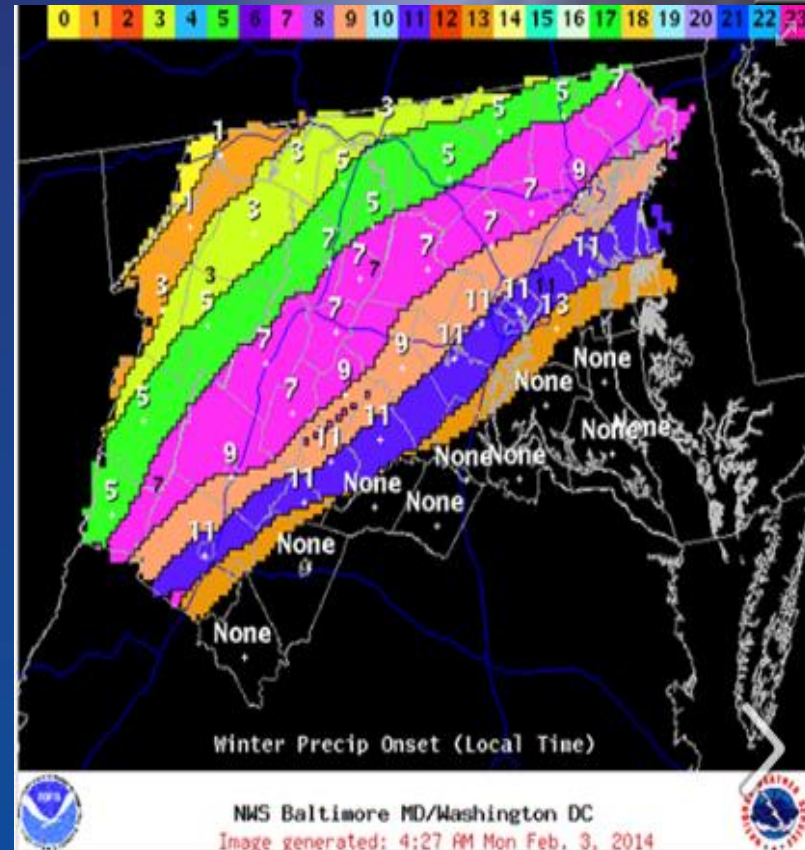
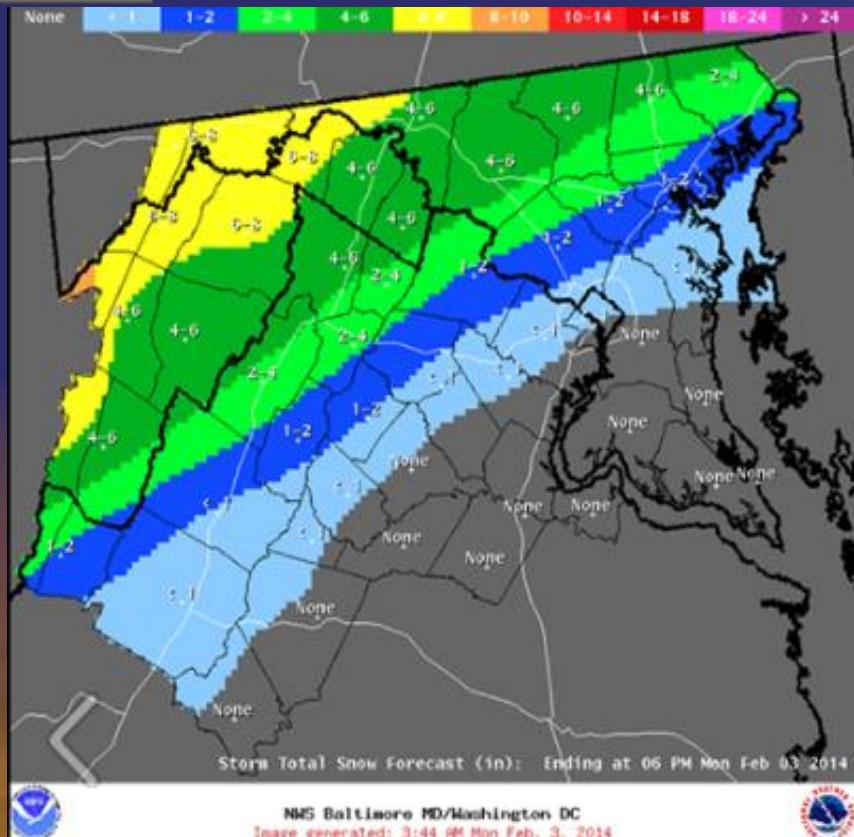
For cities in Washington, DC county Probabilistic range of possibilities for storms are generated for planning ahead of the storm. These ranges are not currently available while snow is ongoing in our forecast area.

0
0
0

[Switch to Exceedence](#)



Expected Snowfall and Precipitation Onset





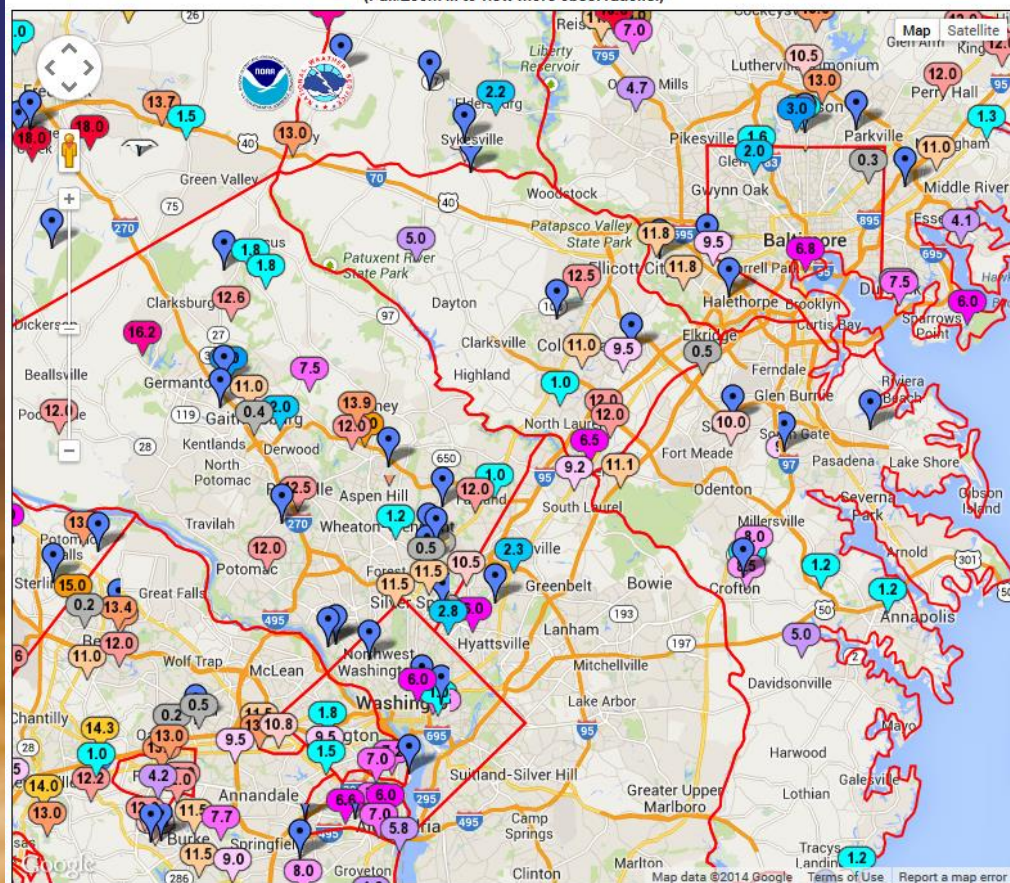
Preliminary Snowfall Totals ending February 13, 2014

The following are unofficial reports from the storm that affected the region ending February 13, 2014. Appreciation is extended to Highway Departments, Cooperative Observers, SKYWARN Spotters, and Media for these reports.

Select an element: ☒ Storm Total Snowfall ☐ 24 Hour Snowfall ☐ Snow Depth

KML

(Pan/Zoom in to view more observations.)



PUBLIC INFORMATION STATEMENT

SPOTTER REPORTS

NATIONAL WEATHER SERVICE BALTIMORE MD/WASHINGTON DC
1019 PM EST THU FEB 13 2014

THE FOLLOWING ARE UNOFFICIAL OBSERVATIONS TAKEN DURING THE PAST 12 HOURS FOR THE STORM THAT HAS BEEN AFFECTING OUR REGION. APPRECIATION IS EXTENDED TO HIGHWAY DEPARTMENTS...COOPERATIVE OBSERVERS...SKYWARN SPOTTERS AND MEDIA FOR THESE REPORTS. THIS SUMMARY IS ALSO AVAILABLE ON OUR HOME PAGE AT WEATHER.GOV/BALTIMORE

*****STORM TOTAL. SNOWFALL*****

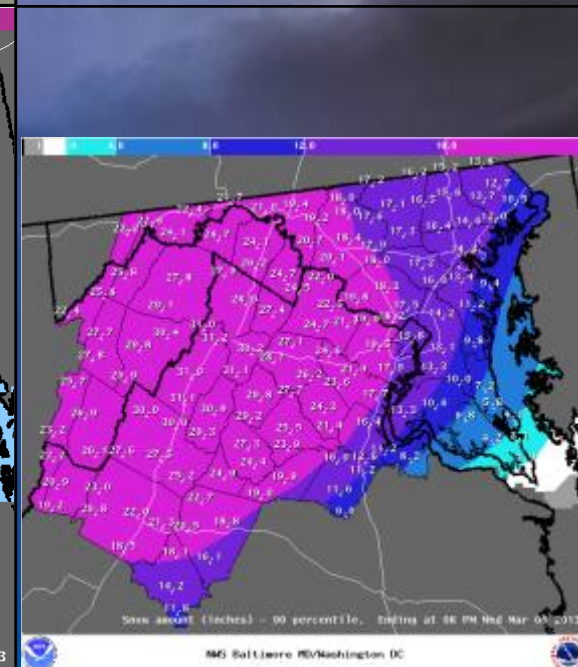
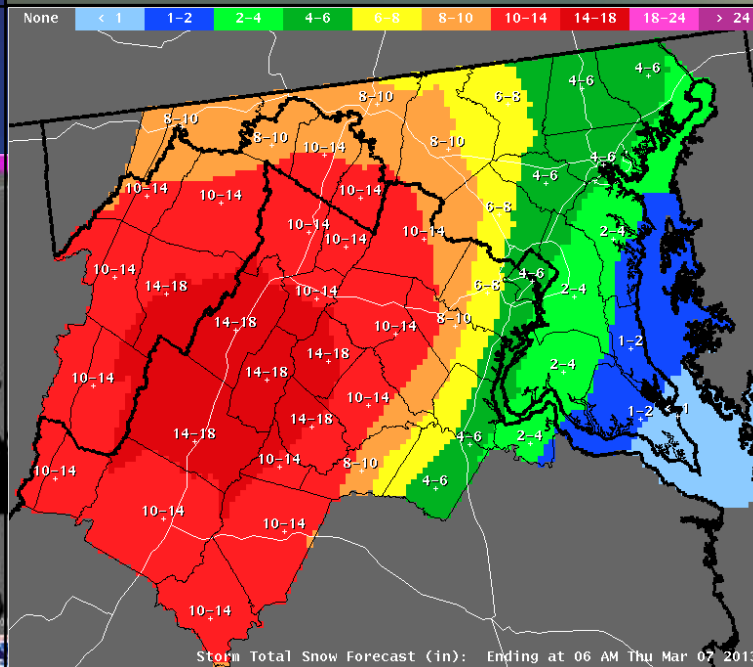
LOCATION	STORM TOTAL SNOWFALL /INCHES/	TIME/DATE OF MEASUREMENT	COMMENTS
DISTRICT OF COLUMBIA			
...DISTRICT OF COLUMBIA...			
WASHINGTON	8.6	1047 AM 2/13	NWS EMPLOYEE
1 NNE WASHINGTON	7.5	1022 AM 2/13	TRAINED SPOTTER
MARYLAND			
...ALLEGANY COUNTY...			
FROSTBURG	20.0	555 PM 2/13	TRAINED SPOTTER
ECKHART MINES	17.5	724 PM 2/13	TRAINED SPOTTER
WESTERNPORT	17.0	430 PM 2/13	TRAINED SPOTTER
1 ENE MOUNT SAVAGE	14.5	1210 PM 2/13	TRAINED SPOTTER
2 NNW FROSTBURG	14.0	1242 PM 2/13	TRAINED SPOTTER
2 NNW WOLFE MILL	14.0	400 PM 2/13	TRAINED SPOTTER
1 W NORTH BRANCH	14.0	130 PM 2/13	COUNTY EMRG MGMT
1 S ECKHART MINES	13.2	1226 PM 2/13	TRAINED SPOTTER
CUMBERLAND	12.0	600 PM 2/13	COUNTY EMRG MGMT
5 NNW LITTLE ORLEANS	11.0	1028 AM 2/13	TRAINED SPOTTER
...ANNE ARUNDEL COUNTY...			
1 E CROFTON	10.0	810 PM 2/13	NWS EMPLOYEE
2 NNE CROFTON	9.0	820 PM 2/13	NWS EMPLOYEE
GREEN HAVEN	7.0	200 PM 2/13	TRAINED SPOTTER
...BALTIMORE COUNTY...			
1 ESE GLYNDON	26.0	930 PM 2/13	TRAINED SPOTTER
1 NW REISTERSTOWN	22.3	1000 PM 2/13	CO-OP OBSERVER
1 E GLYNDON	19.0	1117 AM 2/13	PUBLIC
1 WSW GLYNDON	19.0	730 PM 2/13	TRAINED SPOTTER
3 WNW HEREFORD	18.6	1000 PM 2/13	TRAINED SPOTTER
2 NW LONG GREEN	18.3	1000 PM 2/13	TRAINED SPOTTER
PARKTON	16.5	117 PM 2/13	TRAINED SPOTTER
CATONSVILLE	14.0	300 PM 2/13	PUBLIC
1 E OELLA	13.5	1116 AM 2/13	TRAINED SPOTTER
2 E WHITE MARSH	11.8	845 PM 2/13	TRAINED SPOTTER
1 E REISTERSTOWN	7.0	900 PM 2/13	TRAINED SPOTTER
...BALTIMORE CITY...			
2 W CARROLL	9.5	1150 AM 2/13	TRAINED SPOTTER
...CARROLL COUNTY...			
2 SE WESTMINSTER	24.0	825 PM 2/13	TRAINED SPOTTER
3 SE WINFIELD	19.3	845 PM 2/13	TRAINED SPOTTER
1 W WINFIELD	18.0	500 PM 2/13	PUBLIC

Probabilistic Forecast

Minimum

Most Likely

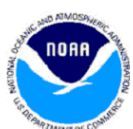
Maximum



Expect at least this much

Official NWS Forecast

Potential for this much



PROBABILITY TABLE

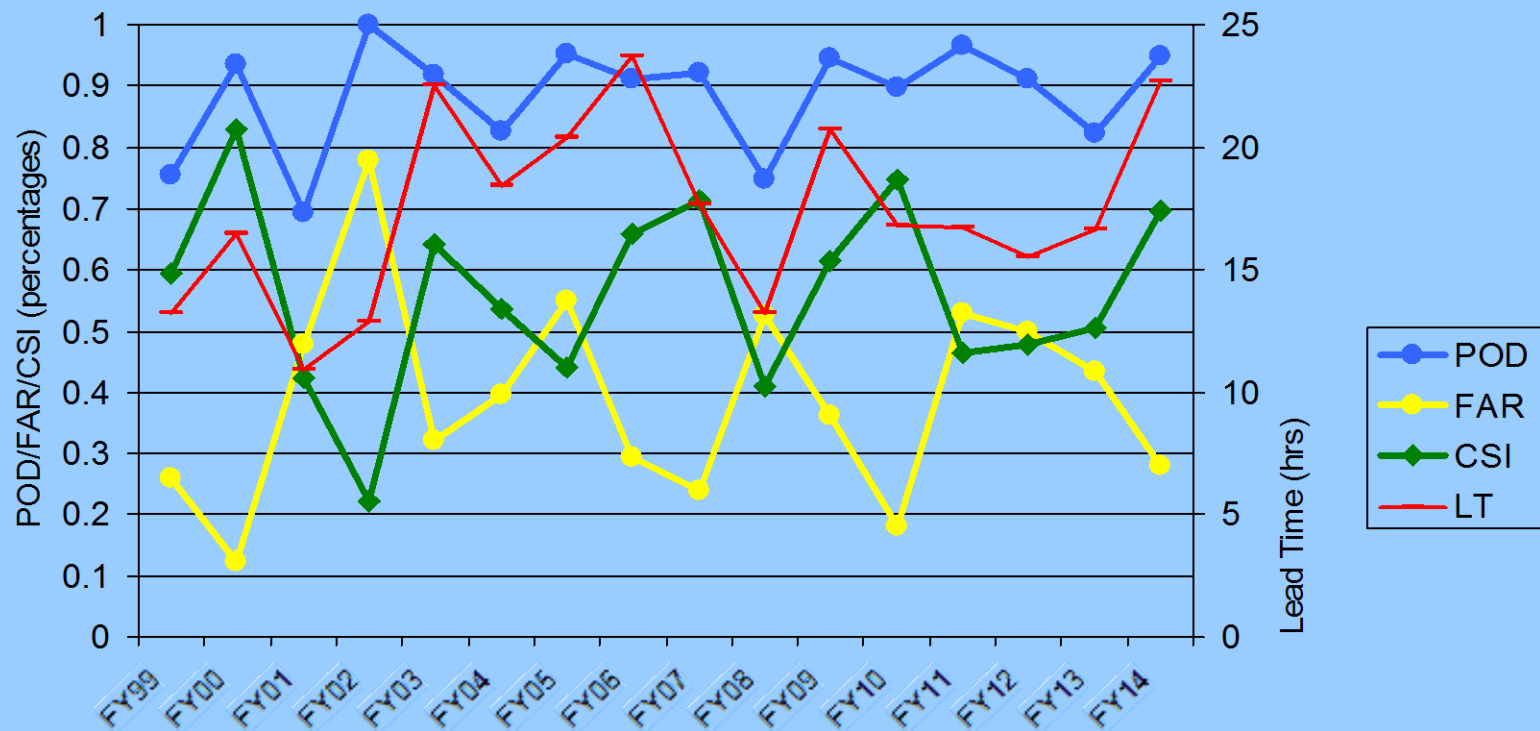
County:

Expect the 'Min' amount of snow and prepare for the 'Max' amount of snow.

Location	Min	Likely	Max	>T	>1"	>2"	>4"	>8"	>12"	>18"
Alexandria, VA	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Anacostia (South DC), DC	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Annapolis, MD	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Arlington City Ctr., VA	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Baltimore, MD	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Bayard, WV	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Bel Air, MD	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Berkeley Springs, WV	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Berryville, VA	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Big Meadows, VA	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Bowie, MD	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Bridgewater, VA	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Broomes Island, MD	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
BWI Airport, MD	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Camp David, MD	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Camp Springs, MD	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Centreville, VA	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%
Chancellor, VA	0"	0"	0"	0%	0%	0%	0%	0%	0%	0%



How Our Forecast Accuracy Calculated



LAST WINTER: POD .950, FAR .279,
CSI .695, LEAD TIME 22.7:



Take Away Points from Last Winter



- Forecast Accuracy was very good, but there were still details and uncertainties throughout the year that had a significant impact on DOT's, EM's, the public, etc.
- There will always be at least some degree of uncertainty in a forecast, whether it be timing, location, precipitation type, amount, etc.
- The impact of a forecast is very important to you, and we need to be able to communicate that to you.
- The next couple slides shows some steps we have taken over the past couple years to open communication for forecast uncertainties and impact.



Communication of Uncertainties: NWSChat



Map Panel

Map Valid: 12:05 AM Tools Opacity

Layers Control

- Base Layer
 - Blank
 - Google Street
- Satellite
 - GOES Water V
 - GOES West V
 - GOES East V
 - GOES Visible
 - GOES IR
- Precip/RADAR
 - NMQ Q2 3 Day
 - NMQ Q2 2 Day

6 people in room

- nws-brian.lasorsa
- nws-donald.turk
- nws-gregory.m.schoor
- nwsakq-michael.montefusco
- nwsbot
- nwspsz-evan.bookbinder

Message

(3:47 PM) nwsbot: LWX issues [Zone Forecast Package \(ZFP\)](#)

(4:09 PM) nwsbot: LWX issues [Hazardous Weather Outlook \(HWO\)](#)

(4:12 PM) nwsbot: LWX issues [Area Forecast Discussion \(AFD\)](#)

(4:30 PM) nwsbot: LWX issues [Zone Forecast Package \(ZFP\)](#)

(5:05 PM) nwsbot: LWX issues [Zone Forecast Package \(ZFP\)](#)

(5:23 PM) nwsbot: LWX issues [Daily Climate Report \(CLI\) for WASHINGTON/DULLES](#)

(5:23 PM) nwsbot: LWX issues [Daily Climate Report \(CLI\) for CHARLOTTESVILLE](#)

(5:23 PM) nwsbot: LWX issues [Daily Climate Report \(CLI\) for WASHINGTON/NATIONAL](#)

(5:23 PM) nwsbot: LWX issues [Daily Climate Report \(CLI\) for BALTIMORE INNER HARBOR](#)

(5:23 PM) nwsbot: LWX issues [Daily Climate Report \(CLI\) for BALTIMORE/WASH INTL](#)

(5:23 PM) nwsbot: LWX issues [Daily Climate Report \(CLI\) for MARTINSBURG RGNL](#)

(7:30 PM) nwsbot: LWX issues [Zone Forecast Package \(ZFP\)](#)

(8:00 PM) nwsbot: ----- Aug 15, 2014 [UTC] -----

(8:45 PM) nwsbot: LWX issues [Area Forecast Discussion \(AFD\)](#)

(8:49 PM) nwsbot: LWX issues [Zone Forecast Package \(ZFP\)](#)

(10:30 PM) nwsbot: LWX issues [Zone Forecast Package \(ZFP\)](#)

Send

Forecasters can discuss with EM's and Media about their confidence in a forecast, potential impact the forecast will have, and we can also receive and send reports.



Conference Calls



Briefings during Winter Weather Events to DOT's, EM's, COG, OPM, and others are provided by NWS Baltimore/Washington.

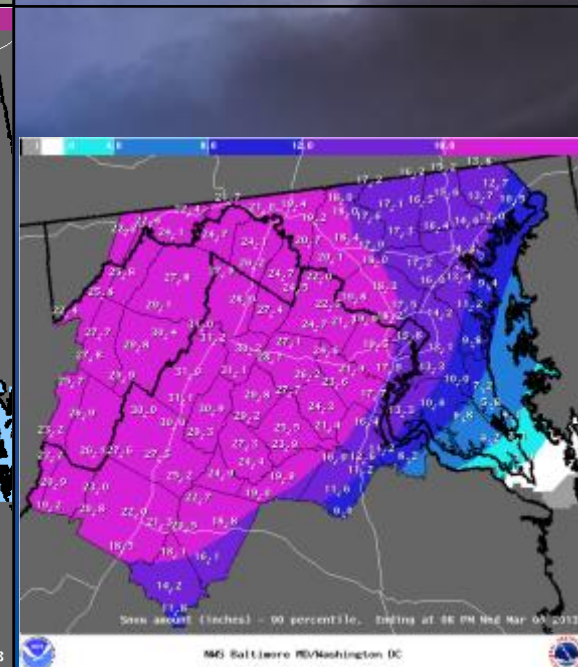
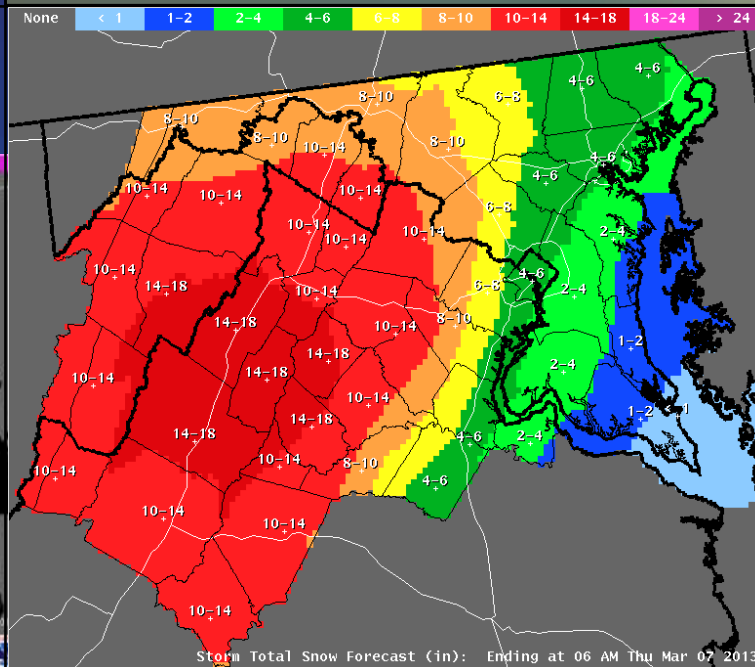


Probabilistic Forecasting

Minimum

Most Likely

Maximum



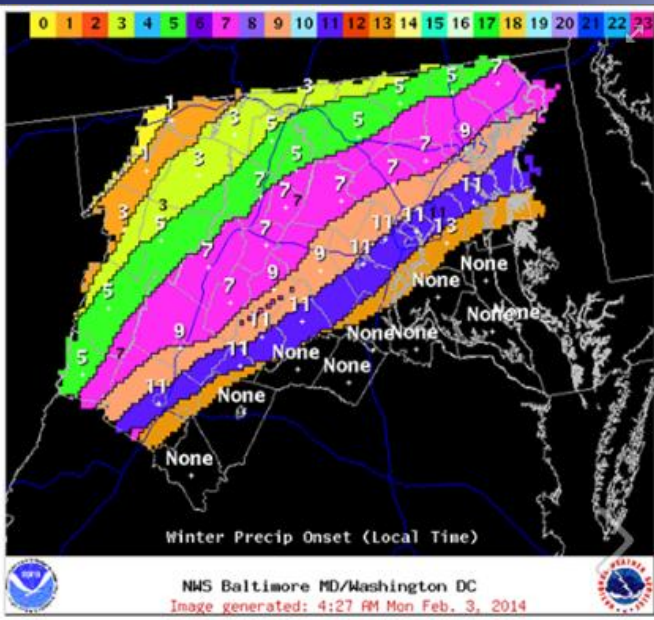
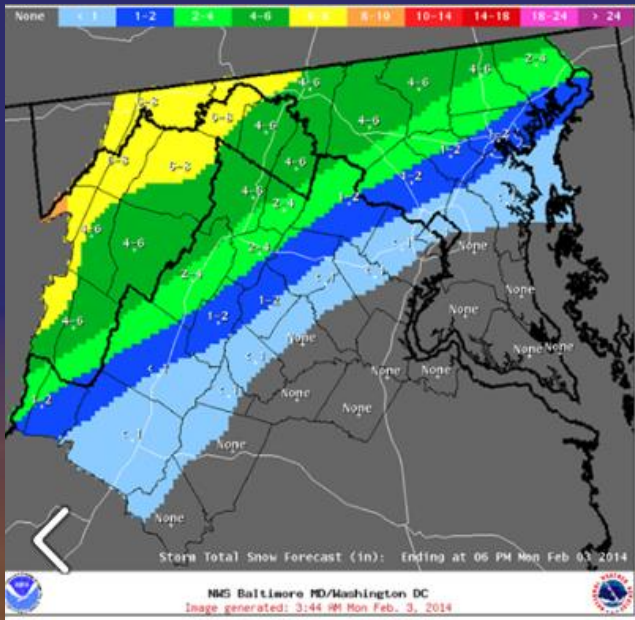
Expect at least this much

Official NWS Forecast

Potential for this much



FACEBOOK



Winter Storm Warning

Winter Weather Advisory



Timeline Photos Mon, Feb 3, 2014 at 4:24:19 am EST

Tag Photo Options | Share Send Like



US National Weather Service
Baltimore/Washington

Liked · February 3

Areas to the north of I-70 will see the highest snowfall amounts, especially over Western Maryland and the Eastern West Virginia Panhandle. Further south and east, colder air will be slower to arrive. Snowfall accumulations under an inch are expected across the Baltimore and Washington DC metro areas with mostly rain to the south and east of there.

Like · Comment · Share

20 people like this.

12 shares

View 4 more comments



Deb Martin Rain in Catonsville...but I see we're in the Less Than an Inch range now. Schools are opening on time.
February 3 at 6:15am · Like · 1



Ronnie Kidwell cumberland has about 4 in right now and coming down hard
February 3 at 6:20am · Like · 1



Kate Lester Annapolis - rain
February 3 at 6:50am · Like



Cassie Behofist Snowing and sticking to everything, including roads, in Winchester.
February 3 at 7:24am · Like



Michael Dice Greencastle had over an inch at 5:30. Sleetng now in meyersville
February 3 at 7:35am · Like



Melanie Rice Garth Sleetng in Harford County.

Write a comment...



TWITTER



NWS DC/Baltimore @NWS_BaltWash · Mar 30

Very active weather ongoing across the area. Check the graphic and our website for details. ow.ly/i/54vvS Stay safe!!



11

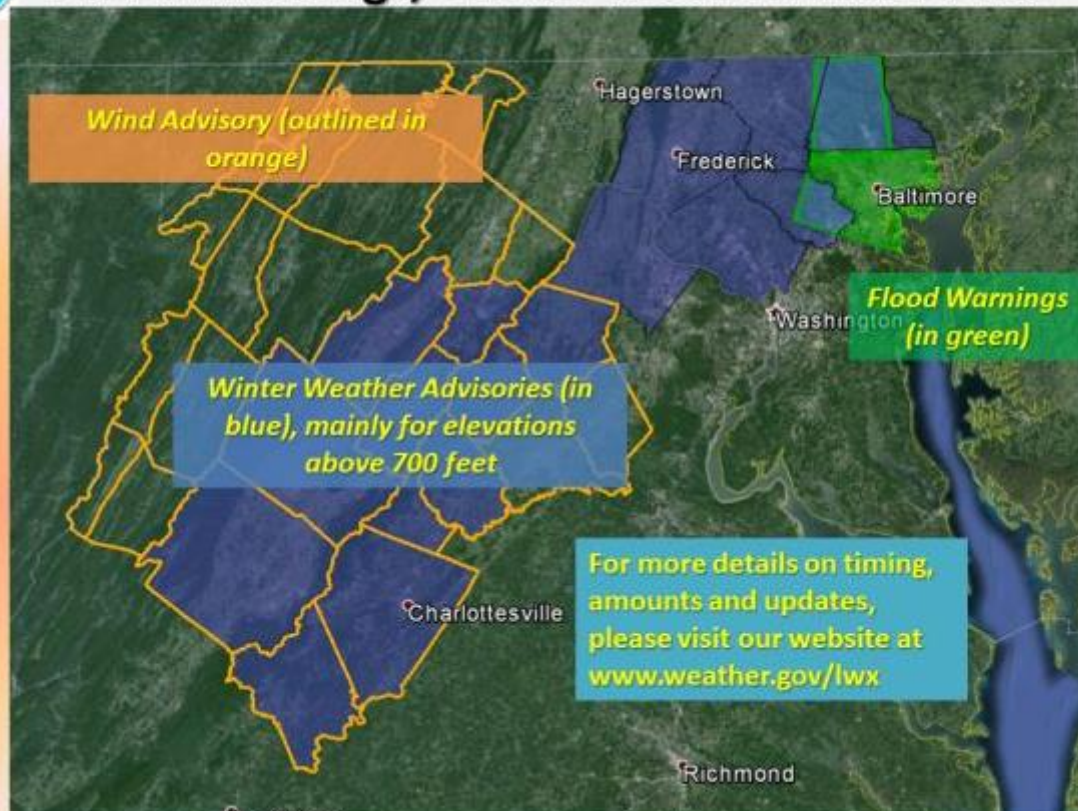
6



[View photo](#)

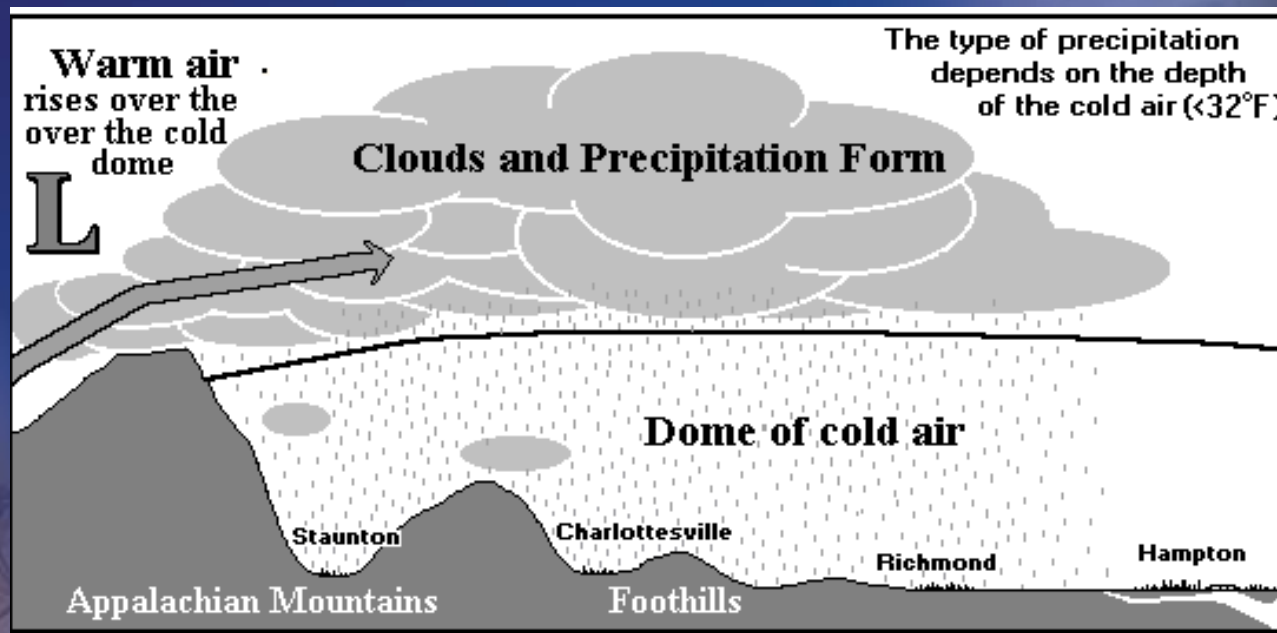


Flood Warnings, Winter Weather Advisories





How Would Our Communication Work for an Extreme Event (Ice Storm)

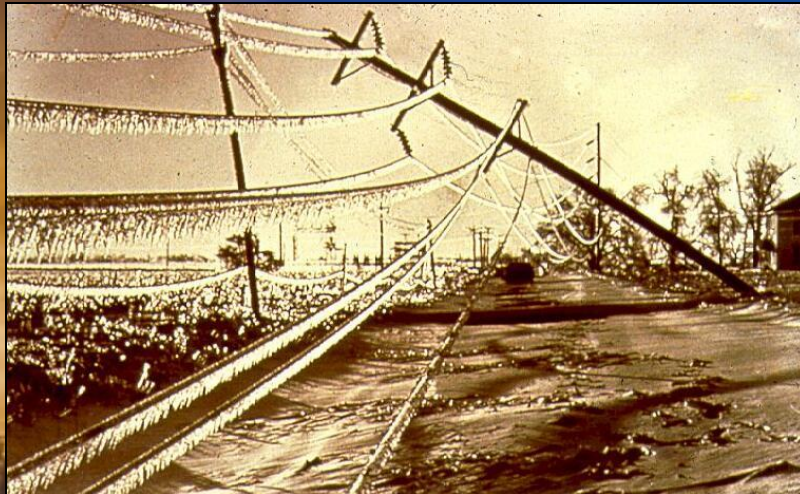




Ice Impacts



- Power and Communication lines come down
- Traffic Accidents
- Pedestrian Falls
- Heavy weight can bring down trees





Extreme Impact From Ice Storm (Winter of 1994)



- Arctic blast hits in mid-January causing temps to drop below zero.
- Power companies went into rolling black outs to conserve energy
- Feb 10th-11th, a major ice storm hits Mid-Atlantic with over an inch of ice from freezing rain.
- Hardest hit area was from Fredericksburg to southern Maryland. Some counties lost 10 percent of their trees from ice accretion. Electric and phone lines were down with as much as 90 percent of the area without power.
- Many people were without power for a week.
- Presidential disaster was given.
- Numerous injuries from vehicle accidents and people falling.





Additional Impacts to Consider From an Extreme Ice Event

- Widespread communication outages.
- Cell towers damaged.
- Critical facilities/businesses not able to move staff in and out.
- Mass Closures
- Inability for first responders to reach people to to iced roads and hundreds of trees over roadways.

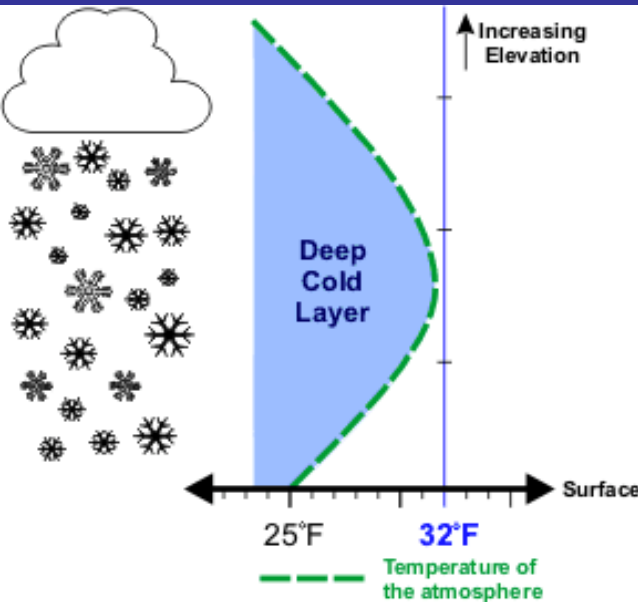


Why Ice Forecasts are Difficult and How it Impacts Our Service

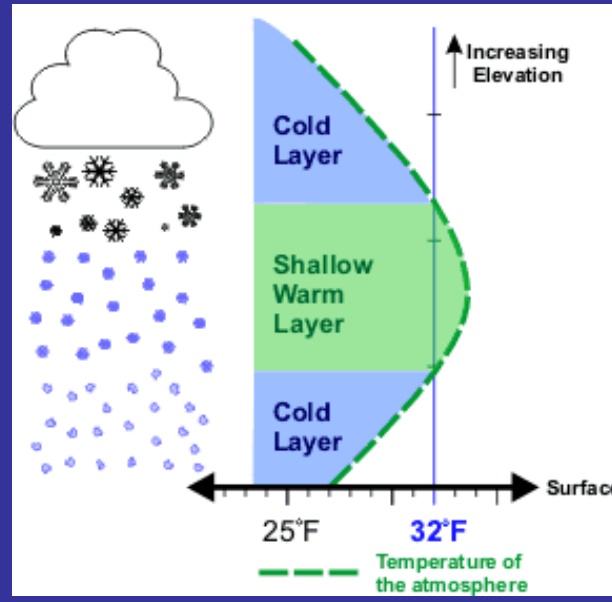


Photo source: Washington Times Dec 10th 2013

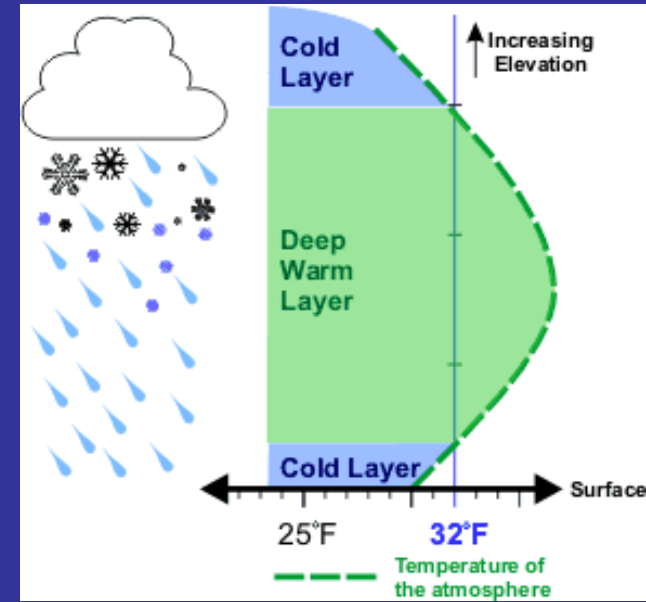
Winter Precipitation Type



SNOW



**SLEET/
ICE PELLETS**

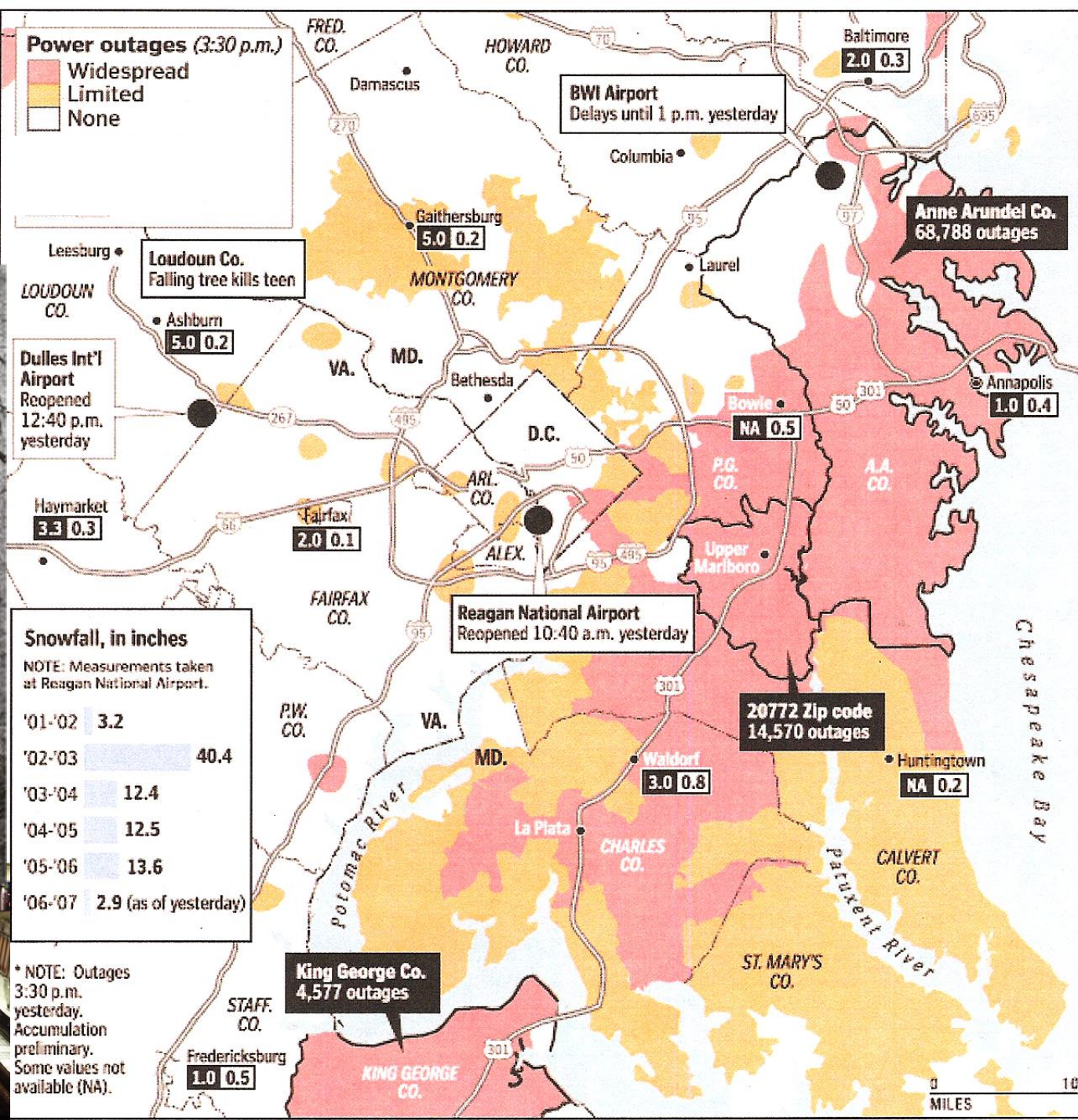


**FREEZING
RAIN**

Power Outages From Ice Storm



Commuters wait through delays in a packed Metro Center station for trains to arrive.





Dissemination of Ice Storm Impacts Should it Happen Today

- National Weather Service would issue products, starting with an Outlook when event is within seven days.
- Watches and Warnings will be issued when the event gets within a couple days.
- Communication about forecaster uncertainties and concerns of significant impact would be transmitted through NWSChat, Conference Calls, and Social Media.
- How would you prepare using this information? Also, is there anything else we can do to assist in disseminating the information to the right people in a timely fashion?